



October Financial Reporting & Expenses

Succeeding this cover page are the STRS Ohio financial reports & expenses for the period ending Oct. 31, 2017. The unaudited reports that follow are:

- *Statement of Changes in Net Position* — This statement reflects fiscal year-to-date additions and deductions to the plans' net position. Items such as contributions, investment income and benefit payments are included in this financial report.
- *Actual Expenses vs. Budget* — This report reflects current month operating expenses and fiscal year-to-date expenses compared to fiscal year-to-date pro-rata budgeted amounts approved by the Board. In addition to operating expenses, a similar comparison is made of capital and State of Ohio expenses.
- *Expense Notes* — This report provides helpful explanations around larger or infrequent expenses.
- *Detailed Operating Expenses* — This report provides the specific companies or individuals paid by STRS Ohio for operating expenses during the month.

STRS Ohio's funds are held in trust for the sole benefit of the retirement system's members and their beneficiaries. Benefits paid by STRS Ohio are funded by contributions from Ohio's public educators and their employers and the investment returns generated by the assets in which those contributions are invested. STRS receives no general revenue funds — in other words, none of the State of Ohio's budget is expended to support STRS Ohio's benefits or operations.

STRS Ohio' operating expenses are paid solely out of investment returns — no member contributions or tax dollars are expended. STRS Ohio's operating budget is approved by the retirement system's board of trustees, who under Ohio law act as fiduciaries to the retirement system's members. Additionally, prior to approval by the STRS Ohio Board, the operating budget is, by law, reviewed by the Ohio Retirement Study Council, which is comprised of members of the Ohio House and Senate, three members appointed by the Governor, as well as the executive directors of Ohio's five public retirement systems.

Questions about the reports attached can be sent to ContactUs@strsoh.org.

State Teachers Retirement System of Ohio
 Statement of Changes in Net Position
 For the Period July 1, 2017 through October 31, 2017

	Defined Benefit Plans	Defined Contribution	Postemployment Healthcare	Totals
Additions:				
Contributions:				
Member	494,679,940	30,180,427		\$524,860,367
Employer	516,559,988	12,934,469		\$529,494,457
Transfers from Defined Contribution Plan	6,045,287	(6,045,287)		
Medicare D reimbursement			20,009,008	20,009,008
Benefit recipient healthcare premiums			111,403,885	111,403,885
Other retirement systems	6,612,288			6,612,288
Total contributions	<u>1,023,897,503</u>	<u>37,069,609</u>	<u>131,412,893</u>	<u>1,192,380,005</u>
Net investment income (loss)	<u>3,367,022,170</u>	<u>52,977,830</u>	<u>170,000,000</u>	<u>3,590,000,000</u>
Total additions	<u>\$4,390,919,673</u>	<u>\$90,047,439</u>	<u>\$301,412,893</u>	<u>\$4,782,380,005</u>
Deductions:				
Service retirement	2,252,504,193			2,252,504,193
Disability retirement	69,717,990			69,717,990
Survivor benefits	41,626,267			41,626,267
Health care			210,935,513	210,935,513
Other	16,163,178			16,163,178
Total benefit payments	<u>2,380,011,628</u>		<u>210,935,513</u>	<u>2,590,947,141</u>
Refunds to members who have withdrawn	88,062,422	14,491,415		102,553,837
Administrative expenses	39,661,533		857,113	40,518,646
Total deductions	<u>\$2,507,735,583</u>	<u>\$14,491,415</u>	<u>\$211,792,626</u>	<u>\$2,734,019,624</u>
Net increase (decrease)	<u>\$1,883,184,090</u>	<u>\$75,556,024</u>	<u>\$89,620,267</u>	<u>\$2,048,360,381</u>
Net position held in trust for pension and postemployment healthcare benefits				
Beginning of year	<u>71,118,707,206</u>	<u>1,252,518,913</u>	<u>3,475,778,910</u>	<u>75,847,005,029</u>
End of period	<u>\$73,001,891,296</u>	<u>\$1,328,074,937</u>	<u>\$3,565,399,177</u>	<u>\$77,895,365,410</u>

STATE TEACHERS RETIREMENT SYSTEM
 Actual Expenses vs. Budget
 For the Month and Fiscal Year-to-Date Ended October 31, 2017

	October	September	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
Salaries and Wages	\$ 13,089,084	\$ 5,763,234	\$ 26,581,062	\$ 26,259,563	\$ 60,533,200	\$ 24,633,778
Fringe Benefits	2,248,036	1,501,209	6,255,709	6,257,511	16,713,300	6,028,872
Professional and Technical Services	1,571,060	731,116	3,616,106	3,894,442	10,759,000	3,657,308
Repairs and Maintenance	472,046	304,468	1,987,264	1,930,418	5,728,500	2,158,514
Travel and Vehicles	73,433	40,577	145,773	197,860	723,900	174,726
Communications	140,254	186,821	613,899	646,154	2,004,100	543,852
Utilities	114,280	86,630	294,532	295,038	1,018,000	316,119
Supplies and Materials	119,230	43,559	262,329	300,341	932,700	297,691
Other Expenses	470,473	29,496	637,602	696,957	1,142,900	656,286
Total Operating Expenses	\$ 18,297,896	\$ 8,687,110	\$ 40,394,276	\$ 40,478,285	\$ 99,555,600	\$ 38,467,146
Capital Budget	\$ 0	\$ 162,036	\$ 234,993	\$ 234,993	\$ 3,306,000	\$ 363,467
State of Ohio Expenses	\$ 62,076	\$ 210	\$ 124,370	\$ 124,370	\$ 364,000	\$ 114,562

Staffing Information:	October	September	August
Budgeted FTE Associates	544	544	544
Full Time Equivalent Associates	533	532	532
Open FTE Positions	4	6	8

_____ Mr. Hill _____ moved, seconded by _____ Mr. Brooks _____, that the report be accepted and the expenditures for the month ending October 31, 2017 in the total amount of \$18,359,972 be approved.

STATE TEACHERS RETIREMENT SYSTEM

Actual Expenses vs. Budget

For the Month and Fiscal Year-to-Date Ended October 31, 2017

	October	September	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
SALARIES AND WAGES						
Salaries and Wages	\$ 3,845,252	\$ 5,747,353	\$ 17,243,710	\$ 17,140,465	\$ 49,516,900	\$ 17,065,998
Other Compensation	1,643	2,380	5,981	16,931	33,100	18,761
Incentive Compensation	9,222,061	0	9,222,061	9,000,000	9,000,000	7,372,751
Unused Vacation and Sick Leave	6,195	0	54,229	54,229	1,823,000	118,617
Overtime	8,183	11,551	32,406	25,262	90,600	24,751
Service Awards	5,750	1,950	22,675	22,675	69,600	32,900
Total Salaries and Wages	\$ 13,089,084	\$ 5,763,234	\$ 26,581,062	\$ 26,259,563	\$ 60,533,200	\$ 24,633,778
FRINGE BENEFITS						
OPERS Employer Cost	\$ 1,387,345	\$ 816,335	\$ 3,288,292	\$ 3,289,905	\$ 7,919,100	\$ 3,064,988
Medical/Hospitalization Insurance	557,748	512,431	2,183,915	2,196,369	6,750,000	2,227,604
Medicare	188,625	81,896	380,386	378,309	890,700	353,869
Dental Insurance	49,822	50,575	201,109	206,235	612,000	204,193
Educational Assistance	(209)	665	31,716	36,490	125,000	28,454
Workers' Compensation	28,297	12,821	59,094	55,447	122,000	64,617
Life Insurance	17,174	17,142	68,064	67,328	201,300	67,223
Disability Insurance	6,901	6,913	27,589	27,427	81,900	27,396
Wellness	9,103	(2,595)	2,288	0	0	(9,472)
Unemployment Compensation	3,230	5,026	13,256	0	11,300	0
Total Fringe Benefits	\$ 2,248,036	\$ 1,501,209	\$ 6,255,709	\$ 6,257,511	\$ 16,713,300	\$ 6,028,872
PROFESSIONAL AND TECHNICAL SERVICES						
Actuary	\$ 4,400	\$ 0	\$ 4,400	\$ 8,627	\$ 272,500	\$ 16,249
Audit	96,889	0	96,889	86,422	299,500	61,381
Banking Expense	4,836	13,877	42,352	79,057	216,500	72,054
Board Election Processing	0	0	0	0	65,000	0
Contract Services	0	1,000	1,000	48,266	265,000	37,881
Custodial Banking Fees	579,363	33,531	665,376	662,708	2,512,500	689,273
Data Management and Analytics	0	0	0	0	176,000	(2,122)
Disaster Recovery	1,016	1,094	3,165	3,357	14,000	3,259
Employment Verification	253	98	1,161	831	4,500	1,007
Health Care Consultant	0	0	0	0	186,000	20,800
Insurance Consultant	15,500	0	31,000	30,663	92,500	30,000
Investigative Services	597	658	1,708	2,085	15,800	2,211
Investment Consultant	131,638	20,834	173,305	159,855	700,000	171,524
Investment Research Services	203,037	563,716	1,469,011	1,400,229	2,550,000	1,331,409
Legal Fees	3,727	5,606	20,244	70,151	370,000	69,913
Medical Examinations	33,421	34,096	114,626	153,087	455,000	111,326
Other Consulting Services	47,300	41,544	101,105	178,572	499,800	211,342
Quotation and Analytic Services	442,830	3,633	847,914	986,000	1,972,000	817,814
Real Estate Contract Services	5,000	0	11,981	12,500	50,000	0
Recruitment Fees	149	0	16,404	5,364	22,400	8,406
Temporary Employment Services	1,104	11,429	14,465	6,667	20,000	3,581
Total Professional/Technical Services	\$ 1,571,060	\$ 731,116	\$ 3,616,106	\$ 3,894,442	\$ 10,759,000	\$ 3,657,308

October Expenses vs. Budget

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	October	September	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
REPAIRS AND MAINTENANCE						
Building Maintenance and Equipment	\$ 95,654	\$ 16,093	\$ 213,455	\$ 304,013	\$ 715,000	\$ 306,173
Copiers	23,535	5,756	35,346	44,641	110,000	35,001
Data Processing Equipment	272,639	267,521	1,615,463	1,436,333	4,309,000	1,706,517
Elevators	(8,981)	0	(8,981)	0	93,000	0
Mail Center Equipment	1,500	3,831	5,331	11,043	21,500	5,331
Property Tax and Leases	9,056	9,057	36,225	54,572	240,000	80,696
Safety and Security Equipment	75,727	1,451	84,461	73,333	220,000	14,228
Trash Removal	2,916	759	5,964	6,483	20,000	10,568
Total Repairs and Maintenance	\$ 472,046	\$ 304,468	\$ 1,987,264	\$ 1,930,418	\$ 5,728,500	\$ 2,158,514
TRAVEL AND VEHICLES						
Gasoline	\$ 924	\$ 637	\$ 2,106	\$ 3,044	\$ 12,000	\$ 1,927
Staff and Board Travel	71,510	39,859	142,296	191,325	698,900	170,555
Vehicle Maintenance	999	81	1,371	3,492	13,000	2,244
Total Travel and Vehicles	\$ 73,433	\$ 40,577	\$ 145,773	\$ 197,860	\$ 723,900	\$ 174,726
COMMUNICATIONS						
Courier Services	\$ 2,098	\$ 1,884	\$ 6,403	\$ 6,469	\$ 27,200	\$ 6,100
Outsourced Distribution	18,830	1,418	25,169	35,000	105,000	14,812
Photography / Media	0	0	0	0	5,000	0
Postage	75,372	127,169	434,327	376,667	1,130,000	316,942
Printing	19,600	23,973	65,972	124,277	395,000	121,047
Telecommunications	24,354	32,377	82,028	103,741	341,900	84,951
Total Communications	\$ 140,254	\$ 186,821	\$ 613,899	\$ 646,154	\$ 2,004,100	\$ 543,852
UTILITIES						
Electricity	\$ 101,059	\$ 76,969	\$ 257,985	\$ 247,512	\$ 800,000	\$ 263,774
Natural Gas	6,615	1,685	14,665	15,166	120,000	20,000
Oil	0	0	0	0	18,000	0
Water	6,606	7,976	21,882	32,361	80,000	32,345
Total Utilities	\$ 114,280	\$ 86,630	\$ 294,532	\$ 295,038	\$ 1,018,000	\$ 316,119
SUPPLIES AND MATERIALS						
Equipment Supplies	\$ 100,508	\$ 25,740	\$ 201,223	\$ 200,165	\$ 593,800	\$ 210,015
Food Service Supplies	9,591	629	16,445	16,000	48,000	16,254
Office Supplies	2,248	5,831	13,459	13,883	65,000	10,574
Personal Computer Software	285	54	2,575	25,035	80,300	20,592
Publications/Subscriptions	1,466	9,274	16,086	33,022	109,600	25,282
Uniforms	5,132	2,031	12,541	12,237	36,000	14,974
Total Supplies and Materials	\$ 119,230	\$ 43,559	\$ 262,329	\$ 300,341	\$ 932,700	\$ 297,691

October Expenses vs. Budget
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	October	September	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
OTHER EXPENSES						
Board Employer Reimbursement	\$ 0	\$ 0	\$ 0	\$ 0	\$ 3,000	\$ 0
Conferences and Seminars	2,916	11,247	27,054	27,759	89,900	22,820
Dues and Licenses	36,820	3,329	46,584	24,929	161,500	24,580
Equipment Rental	0	0	0	0	0	0
Insurance	406,610	0	501,814	525,900	525,900	525,883
Member/Employer Education Programs	13,269	6,874	26,944	55,733	167,200	35,231
Miscellaneous Expense	971	1,094	3,589	5,783	25,000	4,763
Other Board Expense	490	23	797	5,666	22,400	1,132
Other Staff Expense	229	1,736	2,510	1,333	4,000	(450)
Training	9,168	5,193	28,310	49,853	144,000	42,327
Total Other Expenses	\$ 470,473	\$ 29,496	\$ 637,602	\$ 696,957	\$ 1,142,900	\$ 656,286
Total Operating Expenses	\$ 18,297,896	\$ 8,687,110	\$ 40,394,276	\$ 40,478,285	\$ 99,555,600	\$ 38,467,146
	October	September	Year-to-Date	Expected Budget-to-Date	Annual Budget	Prior Year-to-Date
Building Improvements	\$ 0	\$ 0	\$ 35,920	\$ 35,920	\$ 320,000	\$ 11,314
Furniture & Fixtures	0	0	0	0	0	0
Audio Visual	0	0	0	0	0	0
Information Processing	0	24,999	24,999	24,999	682,300	162,910
Maintenance	0	0	0	0	162,200	0
Miscellaneous	0	0	0	0	0	0
Office	0	0	0	0	37,500	0
Telecommunications	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0
Computer Software	0	137,037	174,074	174,074	2,104,000	189,243
Total Capital Budget	\$ 0	\$ 162,036	\$ 234,993	\$ 234,993	\$ 3,306,000	\$ 363,467
Total State of Ohio Expenses	\$ 62,076	\$ 210	\$ 124,370	\$ 124,370	\$ 364,000	\$ 114,562

October 2017 Expense Notes

General Comments

Actual fiscal year-to-date operating expenses total \$40.4 million, which is slightly under the expected budget.

Salaries and Fringe Benefits

Salaries and Wages were back to normal levels in October with the typical two paydays per month. Incentive Compensation and related fringe benefits are higher than the budgeted amount by approximately \$275,000. Educational Assistance reflects a credit balance for tuition reimbursements. Wellness includes biometric screenings and associate reimbursements for successful completion of the wearable fitness tracker program.

Professional and Technical Services

Pension valuation fees are included in Actuary. Audit includes fees for the annual financial statement audit and health care audit costs. One month of domestic custody fees and one quarter of global custody, collateral and performance charges are included in Custodial Banking Fees. A quarterly retainer was paid to the Insurance Consultant. Quarterly investment board consultant services and monthly alternative investment consultant fees are included in Investment Consultant. Investment Research Services includes annual fees for real estate index information, fundamental research services, trade management system fees, and quarterly fixed income services. Other Consulting Services includes the annual payment for the CEM investment benchmarking study. Quotation and Analytic Services include quarterly Bloomberg charges. Retainer fees for one REIC member is included in Real Estate Contract Services.

Repairs and Maintenance

UPS equipment and building automation system maintenance are included in Building Maintenance and Equipment. Bi-annual copier maintenance for one of the vendors is included in Copiers. Annual renewal of quantitative portfolio management software and quarterly maintenance for STaRS are included in Data Processing Equipment. Elevators reflect reimbursement for a credit balance due to a contract adjustment. Annual access card and fire alarm system maintenance and inspection is included in Safety and Security Equipment.

Communications

Annual member statements are included in Outsourced Distribution. Postage and Printing includes health care open enrollment information.

Supplies and Materials

Replacement phones, monitors, laptops, and personal computers for the Windows 10 upgrade are included in Equipment Supplies.

Other Expenses

Dues and Licenses include annual membership fees to the National Institute on Retirement Security and Council of Institutional Investors. Annual premiums for fiduciary risk are included in Insurance. Meeting room charges are included in Member Education Programs. Online technology courses and professional development classes are included in Training.

State of Ohio Expenses

Second quarter fiscal 2018 fees were paid to ORSC.

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Salaries and Wages		
Salaries & Wages	STRS OHIO	13,080,901
	Total	13,080,901
Overtime	STRS OHIO	8,183
	Total	8,183
	Total Salaries and Wages	13,089,084
Fringe Benefits		
OPERS Employer Cost	STRS OHIO	1,387,345
	Total	1,387,345
Medical/Hospitalization Insurance	MEDICAL CLAIMS	562,500
	MISC. RECEIPTS	(6,391)
	STRS OHIO	(81,336)
	UNITED HEALTHCARE INSURANCE CO	82,975
	Total	557,748
Medicare	STRS OHIO	188,625
	Total	188,625
Dental Insurance	DELTA DENTAL	50,058
	MISC. RECEIPTS	(236)
	Total	49,822
Educational Assistance	MISC. RECEIPTS	(5,032)
	RICHARD A HARMAN	975
	SOUTHERN NEW HAMPSHIRE UNIVERSITY	3,660
	STRS OHIO	(100)
	THOMAS SWOGGER	288
	Total	(209)
Workers' Compensation	STRS OHIO	28,297
	Total	28,297
Life Insurance	LINCOLN NATIONAL LIFE INSURANCE COMPANY	17,174
	Total	17,174
Disability Insurance	LINCOLN NATIONAL LIFE INSURANCE COMPANY	6,901
	Total	6,901
Wellness	AMY C DALICANDRO	20
	ANDREA L GARNER	20
	ANDREW J MARFURT	20
	ASHLEY DOWNIN	20
	BETSY A DAULTON	20
	BRENT BALLARD	20
	CALVIN R LONG	20
	CAROLYN CORDRAY	20
	CASSANDRA REESE	20

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	CATHI A BAUMGARDNER	20
	CHERIE SANDBRINK	20
	CHRISTINA NEFF	20
	CHRISTINE A CARR	20
	DARLA J SNYDER	20
	DEBRA L HULAND	20
	DECEMBER SUMMERSETT	20
	DEVON W MAESTRI	20
	ELIZABETH C DUDLEY	96
	EVA J SIMONS	20
	GUY E ZUELZKE	20
	HUILAN LIANG	20
	JAMES A SPADARO	20
	JAMES D DUPLER	20
	JEFFREY CONE	20
	JEFFREY L GERKEN	20
	JENNIFER BLANKE	20
	JENNIFER J METZLER	20
	JENNIFER MONTENARO	20
	JESSICA WALKER	20
	JILL R FAIRCHILD	20
	JILL RICHMOND	20
	JOAN E MCCONNELL	20
	JODI L WELLS	20
	JULIE H FRAZIER	20
	JULIE M HINES	20
	KAREN L JONES	20
	KAREN S WHEELER	20
	KARLA L SMITH	20
	KATHY BOETTCHER	20
	KEIRRA KARSHNER	20
	KELE R WILLIS	20
	KELLY CARRUTHERS	20
	KRISTEN L JAMESON	20
	LARRY BROOKS	20
	LASCHELL BROOKS	20
	LAUREN DEGRAW	20
	LAURIE A JONES	20
	LISA A MASTRACCI	20
	LYNN A BESSANT	20
	LYNN A HOOVER	20
	MARK E FILLINGER	20
	MARK REGENBOGEN	20
	MARY B CORTRIGHT	20
	MATTHEW C HOLMAN	20
	MATTHEW CHRISTY	20
	MEI ZHANG	20
	MELINDA J DODDS	20
	MEYYAPPAN SUBRAMANIAN	20
	MICHAEL A FULLEN	20
	MICHAEL A TAYLOR	20

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	MICHAEL R RILEY	20
	MICHELE MOWERY	20
	MICHELLE S JUMP	20
	MICHELLE SCHUMACHER	20
	MISC. RECEIPTS	(120)
	NARASIMHA R VADREVU	20
	OHIOHEALTH/WORK HEALTH	10,047
	PATRICK SCHLAFER	20
	PAUL M SNYDER	20
	PAULA C TATMAN	20
	REBECCA A DAVIS	20
	REBECCA L RYAN	20
	RICHARD E FISCHBACH	20
	RONALD SCOTT TURNER	20
	SHARON M CORRIGAN	20
	SHELBY JONES	20
	STEPHEN MAYES	20
	STEPHEN W EHLERS	20
	STRS OHIO	(2,640)
	SUBRAMANIAN SRINIVASAN	20
	SUNIL S DEVADIGA	20
	SUSAN R BROOKS	20
	TERESA R ROBERTSON	20
	THOMAS R O'ROURKE	20
	TIFFANY M FULLEN	20
	TRACI L GRAVES	20
	VINAY CHERUKUPALLY	20
	WILLIAM F SHURMAN	20
	YI-PING BROOKS	20
	YING SHI	20
	Total	9,103
Unemployment Compensation	OHIO DEPT OF JOB AND FAMILY SERVICES	3,230
	Total	3,230
	Total Fringe Benefits	2,248,036
Professional and Technical Services		
Actuary	SEGAL COMPANY	4,400
	Total	4,400

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Audit	CLIFTONLARSONALLEN LLP	60,000
	CONDUENT HR CONSULTING LLC	36,889
	Total	96,889
Banking Expense	FIFTH THIRD BANK	4,836
	Total	4,836
Custodial Banking Fees	FIFTH THIRD BANK	10,241
	NORTHERN TRUST	569,122
	Total	579,363
Disaster Recovery	FIFTH THIRD BANK-CORP CARD	50
	FIREPROOF RECORDS CENTER	716
	FIRST FEDERAL CORPORATION	250
	Total	1,016
Employment Verification	SCREENPOINTE INC	253
	Total	253
Insurance Consultant	ALPHA RISK MANAGEMENT INC	15,500
	Total	15,500
Investigative Services	LEXISNEXIS RISK SOLUTIONS	597
	Total	597
Investment Consultant	CALLAN ASSOCIATES INC	110,805
	CLIFFWATER LLC	20,833
	Total	131,638
Investment Research Services	BARCLAYS BANK PLC	37,845
	BCA RESEARCH	68,000
	FTSE INTERNATIONAL LTD	15,195
	ITG PLATFORMS INC	35,812
	OMGEO LLC	400
	THOMSON REUTERS(MARKETS) LLC	37,100
	TRADEWEB LLC	1,500
	WILSHIRE ASSOCIATES INC	7,185
	Total	203,037
Legal Fees	CALFEE HALTER AND GRISWOLD LLP	3,397
	JONES DAY	100
	MUNGER TOLLES AND OLSON LLP	158
	NEWHOUSE PROPHATER KOLMAN & HOGAN LLC	72
	Total	3,727
Medical Examinations	ALBERT J KOLIBASH JR MD	180
	CLAIRE V WOLFE MD	360
	CLEVELAND CLINIC FOUNDATION	1,500
	COLUMBUS CARDIOLOGY CARE	310
	DISABILITY & IMPAIRMENT EVALUATIONS, INC	4,240
	DONALD C MANN MD INC	2,750

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	EARL N METZ MD	100
	EDWIN H SEASON MD INC	820
	EYE SURGICAL & MEDICAL CARE	850
	JAMES N ALLEN, MD	900
	JAMES R. HAWKINS, M.D.	1,800
	JEFFERY C HUTZLER MD	360
	MARC COOPERMAN MD	460
	MARJORIE C GALLAGHER MD	2,225
	MARTIN J GOTTESMAN MD	7,083
	MEDICAL ASSESSMENTS LLC	800
	MEDICAL EVALUATORS LLC	1,050
	OHIO ONCOLOGY AND HEMATOLOGY LLC	500
	ORTHOPEDIC ONE	1,000
	OSU INTERNAL MEDICINE, LLC	2,390
	OSU NEUROSCIENCE CENTER LLC	440
	PHYSICAL MEDICINE, SPORTS & INDL LLC	125
	SCIOTO VALLEY UROLOGY, INC	268
	STEIMAN NEUROLOGY GROUP INC	1,575
	STEPHEN F PARISER, MD	360
	SUMMIT REHAB MEDICINE INC	425
	THOMAS G SHERMAN MD INC	550
	Total	33,421
Other Consulting Services	CALFEE HALTER AND GRISWOLD LLP	10,000
	CEM BENCHMARKING INC	30,000
	FIFTH THIRD BANK	7,300
	Total	47,300
Quotation and Analytic Service	BLOOMBERG FINANCE LP	438,760
	FRANK RUSSELL COMPANY	889
	NYSE MARKET INC	2,374
	OPTIONS PRICE REPORTING AUTHORITY LLC	396
	TSX INC	411
	Total	442,830
Real Estate Contract Services	TIMOTHY HEISE	5,000
	Total	5,000
Recruitment Fees	THE OHIO STATE UNIVERSITY	149
	Total	149
Temporary Employment Services	OFFICE TEAM	1,104
	Total	1,104
	Total Professional and Technical Services	1,571,060
Repairs and Maintenance		
Building Maintenance and Equipment	AMBIUS LLC 05	1,573
	ATLAS INDUSTRIAL CONTRACTORS LTD	4,014
	BUCK AND SONS LANDSCAPE SERVICE INC	1,434
	BUCKEYE POWER SALES CO INC	499

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	CHUCKS SEPTIC TANK, SEWER/DRAIN CLEAN	575
	COMMERCIAL PARTS & SERVICES OF OHIO INC	19
	CONSOLIDATED ELECT DIST	2,350
	EASTWAY SUPPLIES INC	646
	FIFTH THIRD BANK-CORP CARD	1,090
	GLOBE WINDOW CLEANING INC	1,578
	GRAINGER INC	1,582
	GRAYBAR	165
	HERSH PACKING AND RUBBER CO	126
	I SUPPLY COMPANY	8,759
	JOHNSON CONTROLS INC	21,249
	JOHNSTONE SUPPLY	754
	JORDAN POWER CLEANING EQUIPMENT	4,213
	KETCHUM WALTON CO	1,465
	LEGACY MAINTENANCE SERVICES LLC	6,200
	LOMBARDI WATER MANAGEMENT INC	1,120
	LOWES BUSINESS ACCOUNT	263
	MCMASTER-CARR SUPPLY COMPANY	206
	PEPCO	1,109
	PIPE-VALVES INC	661
	PRAXAIR DISTRIBUTION INC	91
	SPEER MECHANICAL	3,307
	TERMINIX	390
	TREASURER STATE OF OHIO	159
	VERTIV SERVICES INC	22,879
	WAYNE DALTON CORP	6,347
	WESTWATER SUPPLY CO	803
	WORLY PLUMBING SUPPLY INC	28
	Total	95,654
Copiers	CANON FINANCIAL SERVICES INC	17,755
	COMDOC, INC	39
	GORDON FLESCH CO INC	5,267
	MT BUSINESS TECHNOLOGIES INC	474
	Total	23,535
Data Processing Equipment	ARROW GLOBAL ASSET DISPOSITION INC	1,708
	BLOOMBERG FINANCE LP	1,000
	CDW GOVERNMENT INC	6,196
	CISCO WEBEX LLC	468
	DR MY COMMERCE INC	676
	DUNDAS SOFTWARE	7,722
	EXECUTIVE INFORMATION SYSTEMS LLC	37,711
	FIFTH THIRD BANK-CORP CARD	479
	IOVATION INC	4,104
	TECHSMITH	542
	VITECH SYSTEMS GROUP INC	207,395
	W BRADLEY ELECTRIC INC/ WBE NETWORK SYS	1,134
	XEROX CORPORATION	3,504
	Total	272,639

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Elevators	MISC. RECEIPTS	(8,981)
	Total	(8,981)
Mail Center Equipment	ABS MONEY SYSTEMS INC	1,500
	Total	1,500
Property Tax and Leases	HOLLINGSWORTH CAPITAL PARTNERS COLS LLC	9,056
	Total	9,056
Safety & Security Equipment	ABCO FIRE PROTECTION INC	4,182
	CAMTRONICS COMMUNICATION COMPANY	625
	HARD FIRE SUPPRESSION SYSTEMS	375
	MORSE WATCHMANS INCORPORATED	131
	SIMPLEX GRINNELL	70,414
	Total	75,727
Trash Removal	MH EQUIPMENT COMPANY	314
	MISC. RECEIPTS	(233)
	REPUBLIC SERVICES #046	330
	WASTE MANAGEMENT INC	2,505
	Total	2,916
	Total Repairs and Maintenance	472,046
Travel and Vehicles		
Gasoline	FIFTH THIRD BANK-CORP CARD	924
	Total	924
Staff and Board Travel	ALAN E MUENCH	463
	AMERICAN EXPRESS COMPANY	20,036
	ANTHONY WEBB	589
	BONNIE E WILD	452
	BRIAN R ENGSTROM	472
	CAROL L CORRETERS	154
	CASSANDRA REESE	417
	COURTYARD MARRIOTT	214
	CRAIG C BROOKS	155
	DALE L PRICE	172
	DRURY INN & SUITES	805
	ERIC NEWBERG	22
	EVELIO ROSARIO III	464
	F RUSSELL NICHOLSON III	852
	FIFTH THIRD BANK-CORP CARD	821
	GARY FOUST	214
	GEOFFREY M BUMP	1,056
	GOURMET CATERERS INC	16
	GRANT EDWARDS	1,065
	HIREN GHALA	1,276
	HOLIDAY INN	213
	HOPE K SHORT	25
	IRENE T BLACK	917

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	JAMES H RITTER	1,833
	JAMES L ZAVODNY	1,049
	JANET PROEHL	275
	JASON T JARVIS	125
	JEFFREY CONE	1,754
	JOHN A BUCH	79
	JOSEPH B LUBELSKI	126
	JOSEPH F LONG	1,241
	JULIA A VISKANTA	432
	KENNETH H BLANKE	1,880
	KEPLER CHEUVREUX S.A.	306
	KIMBERLY R MOORE	504
	LANNY D WELLY	1,169
	LAWRENCE M TEDESCHI	1,629
	LOUISE H SINGER	841
	MARK A REED	83
	MARK A RUBECK	129
	MARK A STOLL	308
	MARK D SCRANTON	675
	MARK HILL	1,249
	MELISSA BOYD	1,137
	MICHAEL J NEHF	1,056
	MICHAEL R RILEY	480
	MICHELE HILLEARY	279
	NIK TAN	1,668
	R JANE SHEA	626
	REBECCA L RYAN	563
	ROBERT W STEIN	154
	RONALD J MCKILLIP	575
	SCOTT PEARSON	206
	SHARA D BAILEY	27
	STANTON WEST	1,550
	STEPHEN M REYNARD	7,978
	STEVEN J LUETTGEN	13
	STEVEN P EASTWOOD	142
	STUART L OW	394
	SUDHIR S NAIKAR	1,410
	TAMLA D COLE	957
	THOMAS R O'ROURKE	908
	TIM MYERS	1,380
	TODD JACOBSON	16
	VENKATA D KANTAMNENI	1,119
	W ALEXANDER MULLIN	1,813
	WILLIAM A SHURMAN	502
	Total	71,510
Vehicle Maintenance	BYERS CHRYSLER, LLC	775
	GOODYEAR AUTO SERVICE CENTER	224
	Total	999
	Total Travel and Vehicles	73,433

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Communications		
Courier Services	FEDEX	80
	RAINBOW EXPRESS INC	977
	UNITED PARCEL SERVICE	1,041
	Total	2,098
Outsourced Distribution	BAESMAN GROUP INC	18,830
	Total	18,830
Postage	FIFTH THIRD BANK-CORP CARD	15
	LORTON DATA INC.	256
	RESERVE ACCOUNT	75,000
	W C NATIONAL MAILING CORPORATION	101
	Total	75,372
Printing	BAESMAN GROUP INC	11,715
	CAPITOL SQUARE PRINTING	711
	THE OLD TRAIL PRINTING CO INC	5,086
	VERITIV OPERATING COMPANY	2,019
	WESTERN STATES ENVELOPE & LABEL	69
	Total	19,600
Telecommunications	AT&T	140
	COREY GEOG	72
	FRONTIER	86
	JASON W BAKER	56
	JOSHUA JOHNSTON	65
	ROBERT KOCI	77
	SCOTT W HAMMOND	223
	T-MOBILE	37
	TIME WARNER CABLE	345
	VERIZON WIRELESS	3,544
	WEST UNIFIED COMMUNICATIONS SERVICES INC	38
	XO COMMUNICATIONS	19,671
Total	24,354	
Total Communications		140,254
Utilities		
Electricity	AMERICAN ELECTRIC POWER	47,260
	CITY OF WESTERVILLE	3,018
	CONEDISON SOLUTIONS	50,781
	Total	101,059
Natural Gas	COLUMBIA GAS OF OHIO	2,017
	CONSTELLATION ENERGY SVCS - NATURAL GAS	4,598
	Total	6,615
Water	COLUMBUS CITY TREASURER	6,606
	Total	6,606

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	Total Utilities	114,280
Supplies and Materials		
Equipment Supplies	ACTION SUPPLY PRODUCTS INC	251
	AVI FOOD SYSTEMS INC	20
	CDW GOVERNMENT INC	1,420
	DOWNTOWN COMPUTERS	334
	FIFTH THIRD BANK-CORP CARD	854
	GORDON FOOD SERVICE	3,340
	HILLYARD OHIO	103
	IT SAVVY	6,736
	KINZUA ENVIRONMENTAL INC	600
	METROLINEDIRECT.COM	6,949
	MNJ TECHNOLOGIES DIRECT INC	75,596
	OFFICE DEPOT INC	88
	PATRICK SCHLAFER	7
	PM PROFESSIONAL SERVICES	139
	QUALITY POOLS	576
	SAM'S CLUB	223
	STATE INDUSTRIAL PRODUCTS	324
	THE MILLCRAFT PAPER COMPANY	465
	VALLEY GRINDING	40
	VERITIV OPERATING COMPANY	2,443
	Total	100,508
Food Service Supplies	AVI FOOD SYSTEMS INC	2,508
	COCA-COLA BOTTLING CO CONSOLIDATED	1,842
	FIFTH THIRD BANK-CORP CARD	113
	FIRSTCHOICE	99

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
	GORDON FOOD SERVICE	20,654
	GREGORY J RUESS	159
	KROGER-COLUMBUS CUSTOMER CHARGES	796
	MATTHEW CHRISTY	153
	MISC. RECEIPTS	(10,273)
	SAM'S CLUB	298
	SCHNEIDER'S BAKERY INC	391
	STRS OHIO	(8,557)
	TREASURER STATE OF OHIO	1,408
	Total	9,591
Office Supplies	CAPITOL OFFICE SUPPLY	60
	CENTRAL OHIO COPIER SUPPLY	114
	INDEPENDENT STATIONERS INC	1,049
	OFFICE DEPOT INC	137
	SAFEGUARD BUSINESS SYSTEMS INC	61
	STAPLES BUSINESS ADVANTAGE	827
	Total	2,248
Personal Computer Software	FIFTH THIRD BANK-CORP CARD	285
	Total	285
Publications/Subscriptions	CAPITOL INFO	79
	COLUMBUS BAR ASSOCIATION	134
	DIRECTV	185
	FIFTH THIRD BANK-CORP CARD	530
	MATTHEW BENDER & CO INC	208
	RELX INC DBA LEXISNEXIS	313
	THE REPOSITORY	17
	Total	1,466
Uniforms	CINTAS CORPORATION	4,246
	ECONOMY	229
	UNIFIRST CORPORATION	657
	Total	5,132
	Total Supplies and Materials	119,230
Other Expenses		
Conferences and Seminars	ARMA GREATER COLUMBUS OHIO CHAPTER	25
	DAVID S TACKETT	399
	FIFTH THIRD BANK-CORP CARD	404
	HUMAN RESOURCES ASSOCIATION	350
	JAMIE LI	50
	JOHN M LEE	50
	OHIO SOCIETY OF CPAS	189
	PUBLIC SECTOR HEALTHCARE ROUNDTABLE	1,000
	RYAN (YEON BAE) KONG	399
	RYAN EBERHART	50
	Total	2,916

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Dues and Licenses	COUNCIL OF INSTITUTIONAL INVESTORS	24,000
	DIANE SAUNDERS	6
	INFORMATION SYS AUDIT & CONTROL ASSOC	600
	INTERNATIONAL FOUNDATION	1,025
	JANET PROEHL	21
	NAT'L ASSOC OF AFRICAN AMERICANS IN HR	125
	NATL ASSOC OF PUBLIC PENSION ATTORNEYS	300
	NATL INSTITUTE ON RETIREMENT SECURITY	9,100
	OHIO ETHICS COMMISSION	60
	PROJECT MANAGEMENT INSTITUTE	154
	PUBLIC RELATIONS SOCIETY OF AMERICA	370
	RICHARD A HARMAN	395
	SOCIETY FOR HUMAN RESOURCE MANAGEMENT	199
	TALCB-TEXAS APPRAISE LIC & CERTIF BOARD	465
	Total	36,820
Insurance	ARC EXCESS & SURPLUS, LLC	406,610
	Total	406,610
Member Education Programs	CINCINNATI MARRIOTT NE	1,024
	EMPLOYER WORKSHOP REGISTRATIONS	140
	COURTYARD MARRIOTT	1,227
	DONATO'S PIZZERIA LLC	254
	EMBASSY SUITES	4,727
	HAMPTON INN & SUITES	900
	HOLIDAY INN	3,211
	MISCELLANEOUS EXPENSE	212
	STONE RIDGE GOLF CLUB LLC	520
	THE MANDALAY	1,054
Total	13,269	
Miscellaneous	FIFTH THIRD BANK-CORP CARD	20
	FIREPROOF RECORDS CENTER	424
	INFOSTORE LLC	133
	MAPLE LEE FLOWERS	68
	MISCELLANEOUS EXPENSE	176
	NATL ASSOC OF STATE RETIREMENT ADMIN	100
	TL SAVAGE INC	50
	Total	971
Other Board Expense	MISCELLANEOUS EXPENSE	490
	Total	490
Other Staff Expense	FIFTH THIRD BANK-CORP CARD	344
	JENNIFER MONTENARO	51
	MISCELLANEOUS EXPENSE	331
	SCOTT W HAMMOND	58
	STRS OHIO	(805)
	SUZAN J WALTERS	250
Total	229	

STATE TEACHERS RETIREMENT SYSTEM

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Detailed Operating Expenses
For the Month Ended October 31, 2017

Account	Vendor	Amount
Training	FIFTH THIRD BANK-CORP CARD	1,040
	GLOBAL KNOWLEDGE TRAINING LLC	6,918
	INTERNATIONAL INSTITUTE FOR LEARNING	935
	TRANE US INC	275
	Total	9,168
	Total Other Expenses	470,473
<hr/> Total Operating Expenses		18,297,896
State of Ohio Expenses	OHIO RETIREMENT STUDY COUNCIL	61,890
	TREASURER STATE OF OHIO	186
	Total State of Ohio Expenses	62,076